CDA486 (DZR Brass)

Chemical Composition
(%max., unless shown as range or min.)

	Cu	As	Pb	Sn	Zn
Min. /Max.	59.0-62.0	.02-.25	1.0-2.5	.30-1.5	Rem.
Nominal	60.5	.13	1.7	.9	-

Note: Cu + Sum of Named Elements, 99.6% min.

Applicable Specifications
No information available.

Common Fabrication Processes
No information available
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Fabrication Properties
No information available.

Mechanical Properties (measured at room temperature, 68 F (20 C)

Temper	Section Size	Cold Work	Typ/Min	Temp	Tensile Strength	Yield Strength (0.5% ext. under load)	Yield Strength (0.2% offset)	Yield Strength (0.05% offset)	El	Rockwell Hardness			Vickers Hard.	Brinell Hard.		Shear Strength	Fatigue Strength*	Izod Impact Strength
	in.	%		F	ksi	ksi	ksi	ksi	%	B	CF30T	T500		500	3000	ksi	ksi	ft-lb
	mm.			C	MPa	MPa	MPa	MPa								MPa	MPa	J
Rod and Wire																		
H02	>2	0	typ	68	40	15	-	-	35-	-	-	-	-	-	-	-	-	0.0
	>50			20	345	135	-	-	35-	-	-	-	-	-	-	-	-	0.0
O60	0.0	0	max	68	-	-	-	-	-	70-	-	-	-	-	-	-	-	0.0
	0.0			20	-	-	-	-	-	70-	-	-	-	-	-	-	-	0.0
O60	0.0	0	min	68	-	-	-	-	-	40-	-	-	-	-	-	-	-	0.0
	0.0			20	-	-	-	-	-	40-	-	-	-	-	-	-	-	0.0
H02	1-2	0	max	68	-	-	-	-	-	75-	-	-	-	-	-	-	-	0.0
	25-50			20	-	-	-	-	-	75-	-	-	-	-	-	-	-	0.0
H02	1/2-1	0	min	68	-	-	-	-	-	60-	-	-	-	-	-	-	-	0.0
	12-25			20	-	-	-	-	-	60-	-	-	-	-	-	-	-	0.0
H02	=<1/2	0	min	68	-	-	-	-	-	75-	-	-	-	-	-	-	-	0.0
	=<12			20	-	-	-	-	-	75-	-	-	-	-	-	-	-	0.0
H02	=<1/2	0	max	68	-	-	-	-	-	80-	-	-	-	-	-	-	-	0.0
	=<12			20	-	-	-	-	-	80-	-	-	-	-	-	-	-	0.0
H02	>2	0	min	68	-	-	-	-	-	35-	-	-	-	-	-	-	-	0.0
	>50			20	-	-	-	-	-	35-	-	-	-	-	-	-	-	0.0
H02	>2	0	max	68	-	-	-	-	-	45-	-	-	-	-	-	-	-	0.0
	>50			20	-	-	-	-	-	45-	-	-	-	-	-	-	-	0.0
O60	0.0	0	typ	68	40	15	-	-	25-	-	-	-	-	-	-	-	-	0.0
	0.0			20	275	135	-	-	25-	-	-	-	-	-	-	-	-	0.0
H02	=<1/2	0	typ	68	65	30	-	-	5	-	-	-	-	-	-	-	-	0.0
	=<12			20	450	207	-	-	5	-	-	-	-	-	-	-	-	0.0
H02	1-2	0	min	68	-	-	-	-	-	40-	-	-	-	-	-	-	-	0.0
	25-50			20	-	-	-	-	-	40-	-	-	-	-	-	-	-	0.0
H02	1-2	0	typ	68	45	20	-	-	20-	-	-	-	-	-	-	-	-	0.0
	25-50			20	340	135	-	-	20-	-	-	-	-	-	-	-	-	0.0
H02	1/2-1	0	max	68	-	-	-	-	-	80-	-	-	-	-	-	-	-	0.0
	12-25			20	-	-	-	-	-	80-	-	-	-	-	-	-	-	0.0
H02	1/2-1	0	typ	68	50	25	-	-	10-	-	-	-	-	-	-	-	-	0.0
	12-25			20	370	240	-	-	10-	-	-	-	-	-	-	-	-	0.0

*Fatigue Strength: 100 x 10 ^{6}cycles,
unless indicated as [N] X 10^{6}.

Physical Properties

	US Customary	Metric
Melting Point - Liquidus	1645 F	895 C
Melting Point - Solidus	1635 F	890 C
Density	.304 lb/in^3 at 68 F	8.42 gm/cm^3 @ 20 C
Specific Gravity	8.420	8.42
Electrical Resistivity	72.70 ohms-cmil/ft @ 68 F	12.0 microhm-cm @ 20 C
Electrical Conductivity	25 %IACS @ 68 F	0.15 MegaSiemens/cm @ 20 C
Coefficient of Thermal Expansion	13 $\cdot 10^{-6}$ per ^{o}F (68-572 F)	22.5 $\cdot 10^{-6}$ per ^{o}C (20-300 C)
Modulus of Elasticity in Tension	14600 ksi	101000 MPa

Tempers Most Commonly Used

Other	
R&W	O60
RWIRE	H02

Typical Uses

No information available.

Casting Characteristics

No casting characteristics available for this alloy.